IRON AND STEEL ENGINEER INDEX FOR 1958

Herewith is presented the index of all authors and papers published in the IRON AND STEEL ENGINEER for the year 1958

LIST OF AUTHORS

A

ACRES, WILLIAM P.—"Choosing the Right Fastener," March, 1958, Page 151.
AKERLOW, EARL V.—"Modifications to the Fontana Open Hearth Precipitators," July, 1958, Page 97.
ANDERSON, E. L.—"Electrical Equipment for a Modern Rod Mill," January, 1958, Page 112.
ANGEL, H. H.—"Protection Against Prolonged Delays on Main Drive Electrical Equipment," April, 1958, Page 77.
ARANT, N. R. and MARSALKA, J. J.—"Relationship Between Scleroscope, Rockwell and Brinell Hardness Readings," February, 1958, Page 160.
AUDETTE, RICHARD R. and LEMMERMAN, RICHARD D.—"Noise—A Problem of Physical and Human Engineering," October, 1958, Page 116.

B

BAILEY, E. T. W.—"Accelerated Firing Rates in Open Hearth Furnaces," October, 1958, Page 124.
BAUER, J. W., JR.—"Proper Installation and Maintenance of Electric Control Systems," April, 1958, Page 128.
BEADLE, R. G. and MILLER, W. E.—Card Programming Control of Rolling Mills—II June, 1958, Page 115.
BEERS, H. S.—"The Forming of Flanged and Dished Heads," May, 1958, Page 110.
BESSENT, C. F.—"Techniques in Rebuilding a Blast Furnace," February, 1958, Page 82.
BESSENT, THOMAS A.—"Recent Lubrication Experiences In The Sparrows Point Plant," December, 1958, Page 117.
BOWERMAN, MYRON R. and MADISON, ELVIN R.—"Standardized Component Parts for Heavy Duty Mill Type Cranes," July, 1958, Page 104.
BRADFORD, J. T. and BROOKS, C. P.—"Recent Advances in Control Systems for Continuous Processing Lines," October, 1958, Page 129.
BROOKS, C. P. and BRADFORD, J. T.—"Recent Advances in Control Systems for Continuous Processing Lines," October, 1958, Page 129.
BYWATER, L. G.—"Coal Chemicals in Industry," October, 1958, Page 101.

C

CALMES, ALBERT, DR. and ROBERTS, CLYDE A.—"Seamless Tube Making By the Calmes Process," February, 1958, Page 124.
CAMPBELL, HENRY W.—"Distributing Raw Materials in Blast Furnaces," April, 1958, Page 116.
CARSON, SAMUEL—"Maintenance of Oil Film Bearings on European Mills," April, 1958, Page 90.
CICHELLI, A. E.—"Mill Gearing as Viewed by a Lubrication Engineer," September, 1958, Page 91.
CLIFFORD, T. D.—"Operational Features of 45-In. Slab Mill and 80-In. Hot Strip Mill at Fairless Works," September, 1958, Page 198.
COOK, J. W., WALLACE, J. W. and WALKER, N. S.—"An Automatic Gage Control System for Tandem Cold Mills," July, 1958, Page 124.
CULVER, E. T. and JOSEPH, JAMES S.—"The Dollars and Sense of Pickle-Liquor Treatment," March, 1958, Page 112.
CURTIS, S. P., SCHRAMM, R. F. and FATH, D. W.—"Automatic Charging Control for No. 3 Fairless Blast Furnace," July, 1958, Page 73.

D

DANIELS, F. C. T. and STASKO, STEVE—"A New Combustion Process for Temperature Uniformity in Heat Treating Furnaces," July, 1958, Page 85.
DATO, J. E.—"Magnetic-Flux Gas Shielded Arc Welding," September, 1958, Page 160.
DAVIS, ERNEST E.—"A Combination Mill for Rolling Rod, Bars and Strip," April, 1958, Page 101.
DIXON, THOMAS E. and KUHNE, HEINZ A.—"Developments in Metallic Recuperators," January, 1958, Page 127.
DRISCOLL, D. H. and RENBERG, CLAIR—"Double Cooling Bed for Rod Mill," March, 1958, Page 141.
DUGAN, JOHN—"Application of Progressive Induction Heating to Forged Roll Hardening Operations," November, 1958, Page 65.

E

EASTON, RUFUS and SKELLEY, H. E.—"Designing a Large Tonnage Continuous Casting Plant," May, 1958, Page 131.
EGGLESTON, R. B., PEEBLES, J. E. and REMLEY, J. J.—"Selection of Electrical Equipment for Temper and Skin Pass Mills," September, 1958, Page 115.
ESS, T. J.—"Republic in the South," April, 1958, Page R-1.
ESS, T. J.—"Weirton Steel Co.," November, 1958, Page W-1.

F

FATH, D. W., CURTIS, S. P. and SCHRAMM, R. F.—"Automatic Charging Control for No. 3 Fairless Blast Furnace," July, 1958, Page 73.
FROSTICK, H. G.—"Trends in Ingot Buggy Design," October, 1958, Page 78.

G

GESDORF, E. J.—"Development and Application of Spray Lubrication," May, 1958, Page 115.
GIFFORD, H. J. and KRAPF, GEORGE H.—"An Operator's Evaluation of the Versatile Gas Turbine," June, 1958, Page 98.
GLEVE, F. J.—"Design of Rolling Mill Slippers," May, 1958, Page 127.
GRAY, A. C. and MITCHELL, J. G.—"Operating and Mechanical Features of New 46 × 100 In. High-Lift Blooming Mill at Stelco" August, 1958, Page 123.
GREINER, JOHN H.—"Recent Hot Strip Mill Roughing Trains," September, 1958, Page 151.
GRIMWOOD, J. E.—"When Do You Change Wire Rope Cables?" June, 1958, Page 94.

H

HANEY, DAVID C.—"Soaking Pits with a High Velocity Combustion System," November, 1958, Page 82.
HARMON, BENJ. G. and PROCTOR, ROBERT V.—"Hydraulic Jet Descaling—A New Method to Remove Scale from Hot Steel," December, 1958, Page 97.
HINDS, G. W. and HODGE, A. L.—"Open Hearth Fuel Atomization With a Reaction-Type Jet Burner," December, 1958, Page 88.
HODGE, A. L.—"The Oxidation Mechanism in the Open Hearth Furnace," November, 1958, Page 97.
HODGE, A. L. and HINDS, G. W.—"Open Hearth Fuel Atomization With a Reaction-Type Jet Burner," December, 1958, Page 88.
HOFFMANN, OTTO and KRYNYTZKY, ALEX—"A Modern Forging Press and Its Controls," June, 1958, Page 81.
HOLBROOK, D. S.—"The Growing Canadian Steel Industry," July, 1958, Page 133.
HOLMAN, ROBERT W.—"Card Programming Control of Rolling Mills—I," June, 1958, Page 113.
HOWRY, A. D.—"Measuring the Investment Worth of Capital Expenditure Proposals," December, 1958, Page 79.
HUSTON, C. L., JR.—"Progress—Past and Future," August, 1958, Page 69.
HYAMS, WILLIAM—"Automatic Contour Turning of Large Mill Rolls," March, 1958, Page 82.

IRON AND STEEL ENGINEER INDEX FOR 1958

Herewith is presented the index of all authors and papers published in the IRON AND STEEL ENGINEER for the year 1958

LIST OF AUTHORS

A

ACRES, WILLIAM P.—"Choosing the Right Fastener," March, 1958, Page 151.
AKERLOW, EARL V.—"Modifications to the Fontana Open Hearth Precipitators," July, 1958, Page 97.
ANDERSON, E. L.—"Electrical Equipment for a Modern Rod Mill," January, 1958, Page 112.
ANGEL, H. H.—"Protection Against Prolonged Delays on Main Drive Electrical Equipment," April, 1958, Page 77.
ARANT, N. R. and MARSALKA, J. J.—"Relationship Between Scleroscope, Rockwell and Brinell Hardness Readings," February, 1958, Page 160.
AUDETTE, RICHARD R. and LEMMERMAN, RICHARD D.—"Noise—A Problem of Physical and Human Engineering," October, 1958, Page 116.

B

BAILEY, E. T. W.—"Accelerated Firing Rates in Open Hearth Furnaces," October, 1958, Page 124.
BAUER, J. W., JR.—"Proper Installation and Maintenance of Electric Control Systems," April, 1958, Page 128.
BEADLE, R. G. and MILLER, W. E.—Card Programming Control of Rolling Mills—II June, 1958, Page 115.
BEERS, H. S.—"The Forming of Flanged and Dished Heads," May, 1958, Page 110.
BESSENT, C. F.—"Techniques in Rebuilding a Blast Furnace," February, 1958, Page 82.
BESSENT, THOMAS A.—"Recent Lubrication Experiences In The Sparrows Point Plant," December, 1958, Page 117.
BOWERMAN, MYRON R. and MADISON, ELVIN R.—"Standardized Component Parts for Heavy Duty Mill Type Cranes," July, 1958, Page 104.
BRADFORD, J. T. and BROOKS, C. P.—"Recent Advances in Control Systems for Continuous Processing Lines," October, 1958, Page 129.
BROOKS, C. P. and BRADFORD, J. T.—"Recent Advances in Control Systems for Continuous Processing Lines," October, 1958, Page 129.
BYWATER, L. G.—"Coal Chemicals in Industry," October, 1958, Page 101.

C

CALMES, ALBERT, DR. and ROBERTS, CLYDE A.—"Seamless Tube Making By the Calmes Process," February, 1958, Page 124.
CAMPBELL, HENRY W.—"Distributing Raw Materials in Blast Furnaces," April, 1958, Page 116.
CARSON, SAMUEL—"Maintenance of Oil Film Bearings on European Mills," April, 1958, Page 90.
CICHELLI, A. E.—"Mill Gearing as Viewed by a Lubrication Engineer," September, 1958, Page 91.
CLIFFORD, T. D.—"Operational Features of 45-In. Slab Mill and 80-In. Hot Strip Mill at Fairless Works," September, 1958, Page 198.
COOK, J. W., WALLACE, J. W. and WALKER, N. S.—"An Automatic Gage Control System for Tandem Cold Mills," July, 1958, Page 124.
CULVER, E. T. and JOSEPH, JAMES S.—"The Dollars and Sense of Pickle-Liquor Treatment," March, 1958, Page 112.
CURTIS, S. P., SCHRAMM, R. F. and FATH, D. W.—"Automatic Charging Control for No. 3 Fairless Blast Furnace," July, 1958, Page 73.

D

DANIELS, F. C. T. and STASKO, STEVE—"A New Combustion Process for Temperature Uniformity in Heat Treating Furnaces," July, 1958, Page 85.
DATO, J. E.—"Magnetic-Flux Gas Shielded Arc Welding," September, 1958, Page 160.
DAVIS, ERNEST E.—"A Combination Mill for Rolling Rod, Bars and Strip," April, 1958, Page 101.
DIXON, THOMAS E. and KUHNE, HEINZ A.—"Developments in Metallic Recuperators," January, 1958, Page 127.
DRISCOLL, D. H. and RENBERG, CLAIR—"Double Cooling Bed for Rod Mill," March, 1958, Page 141.
DUGAN, JOHN—"Application of Progressive Induction Heating to Forged Roll Hardening Operations," November, 1958, Page 65.

E

EASTON, RUFUS and SKELLEY, H. E.—"Designing a Large Tonnage Continuous Casting Plant," May, 1958, Page 131.
EGGLESTON, R. B., PEEBLES, J. E. and REMLEY, J. J.—"Selection of Electrical Equipment for Temper and Skin Pass Mills," September, 1958, Page 115.
ESS, T. J.—"Republic in the South," April, 1958, Page R-1.
ESS, T. J.—"Weirton Steel Co.," November, 1958, Page W-1.

F

FATH, D. W., CURTIS, S. P. and SCHRAMM, R. F.—"Automatic Charging Control for No. 3 Fairless Blast Furnace," July, 1958, Page 73.
FROSTICK, H. G.—"Trends in Ingot Buggy Design," October, 1958, Page 78.

G

GESDORF, E. J.—"Development and Application of Spray Lubrication," May, 1958, Page 115.
GIFFORD, H. J. and KRAPF, GEORGE H.—"An Operator's Evaluation of the Versatile Gas Turbine," June, 1958, Page 98.
GLEVE, F. J.—"Design of Rolling Mill Slippers," May, 1958, Page 127.
GRAY, A. C. and MITCHELL, J. G.—"Operating and Mechanical Features of New 46 × 100 In. High-Lift Blooming Mill at Stelco" August, 1958, Page 123.
GREINER, JOHN H.—"Recent Hot Strip Mill Roughing Trains," September, 1958, Page 151.
GRIMWOOD, J. E.—"When Do You Change Wire Rope Cables?" June, 1958, Page 94.

H

HANEY, DAVID C.—"Soaking Pits with a High Velocity Combustion System," November, 1958, Page 82.
HARMON, BENJ. G. and PROCTOR, ROBERT V.—"Hydraulic Jet Descaling—A New Method to Remove Scale from Hot Steel," December, 1958, Page 97.
HINDS, G. W. and HODGE, A. L.—"Open Hearth Fuel Atomization With a Reaction-Type Jet Burner," December, 1958, Page 88.
HODGE, A. L.—"The Oxidation Mechanism in the Open Hearth Furnace," November, 1958, Page 97.
HODGE, A. L. and HINDS, G. W.—"Open Hearth Fuel Atomization With a Reaction-Type Jet Burner," December, 1958, Page 88.
HOFFMANN, OTTO and KRYNYTZKY, ALEX—"A Modern Forging Press and Its Controls," June, 1958, Page 81.
HOLBROOK, D. S.—"The Growing Canadian Steel Industry," July, 1958, Page 133.
HOLMAN, ROBERT W.—"Card Programming Control of Rolling Mills—I," June, 1958, Page 113.
HOWRY, A. D.—"Measuring the Investment Worth of Capital Expenditure Proposals," December, 1958, Page 79.
HUSTON, C. L., JR.—"Progress—Past and Future," August, 1958, Page 69.
HYAMS, WILLIAM—"Automatic Contour Turning of Large Mill Rolls," March, 1958, Page 82.

J

JOSEPH, JAMES S. and CULVER, E. T.—"The Dollars and Sense of Pickle-Liquor Treatment," March, 1958, Page 112.

K

KALBERKAMP, H. J.—"Recent Developments in Slabbing Mills," February, 1958, Page 73.
KELLER, J. D.—"Fast Annealing of Sheet-Strip Coils with Helium Injection," April, 1958, Page 109.
KENNEDY, G. E. and SLAMAR, F.—"Turn-Up and Turn-Down in Hot Rolling," March, 1958, Page 71.
KENNEDY, JAMES R.—"Planned Maintenance Techniques for a Hot Strip Mill," October, 1958, Page 139.
KENYON, A. F. and OAKES, H. J.—"Electrical Drive System For a High Speed Combination Rod Mill," March, 1958, Page 123.
KERN, EMIL and TRABITS, JAMES E.—"Allegheny Ludlum Steel Corp.'s New Forge Shop, Dunkirk, N. Y.," June, 1958, Page 73.
KINNEY, JOHN E.—"Stream Pollution Reflects Operating Practices," April, 1958, Page 97.
KIRKDOFFER, N. R.—"Benefits of Purchased Oxygen to the Indiana Harbor Works of the Inland Steel Company," May, 1958, Page 71.
KITT, HOWARD G. and WORLEY, ROBERT W.—"Trends in Steel Mill Power Plants," March, 1958, Page 90.
KRAPF, GEORGE H. and GIFFORD, H. J.—"An Operator's Evaluation of the Versatile Gas Turbine," June, 1958, Page 98.
KRAPF, G. H. and STEPHENS, J. O.—"Gas Turbines for Blast Furnace Blowing," September, 1958, Page 142.
KRYNYTZKY, ALEX and HOFFMANN, OTTO—"A Modern Forging Press and Its Controls," June, 1958, Page 81.
KUHNE, HEINZ A. and DIXON, THOMAS E.—"Developments in Metallic Recuperators," January, 1958, Page 127.
KUKA, K. S.—"Standardization of Steel Mill Crane Control Systems," December, 1958, Page 61.
KYLE, ROBERT—"Gas Storage for Peak Demands," August, 1958, Page 109.

L

LAMBERT, R. A.—"Economics of Generated vs Purchased Oxygen for Steel Plant Use," May, 1958, Page 76.
LEMMERMAN, RICHARD D. and AUDETTE, RICHARD R.—"Noise—A Problem of Physical and Human Engineering," October, 1958, Page 116.
LEWIS, W. E.—"Electric Furnace Steel Manufacturing," March, 1958, Page 98.
LEWIS, W. M.—"Maintenance of Backup Roll Bearings in Strip Mills," November, 1958, Page 115.
LINDBERG, JEROME L.—"It Ain't Mechanical," September, 1958, Page 166.

M

McLEAN, WILLIAM B.—"Structural Design Problems and Recommended Practice for Ore Bridges and Unloaders," August, 1958, Page 78.
McLEOD, ALASTAIR—"European Steelmaking Today," February, 1958, Page 133.
McMICHAEL, R. C.—"A Review of European Steel Plant Progress—1957," August, 1958, Page 73.
McQUAID, HARRY W.—"The Direct Reduction of Iron Ore in the United States," January, 1958, Page 69.
MACQUEEN, A. J. F.—"Factors in the Design of a Steel Plant Power System," October, 1958, Page 92.
MADISON, ELVIN R. and BOWERMAN, MYRON R.—"Standardized Component Parts for Heavy Duty Mill Type Cranes," July, 1958, Page 104.
MADSEN, I. E.—"Developments in the Iron and Steel Industry During 1957," January, 1958, Page 139.
MADSEN, I. E.—"Coke and By-Products In 1957," December, 1958, Page 73.
MAGIE, WM. A., 2ND—"Importance of Pumpability and Heat Stability in Industrial Greases," October, 1958, Page 87.
MARSALKA, J. J. and ARANT, N. R.—"Relationship Between Scleroscope, Rockwell and Brinell Hardness Readings," February, 1958, Page 160.
MICHELS, N. C.—"Tomorrow's Engineer," June, 1958, Page 104.
MILLER, W. E. and BEADLE, R. G.—"Card Programming Control of Rolling Mills," June, 1958, Page 115.
MITCHELL, HOWARD L.—"Installation of Stretch Reducing Mill," March, 1958, Page 139.
MITCHELL, J. G. and GRAY, A. C.—"Operating and Mechanical Features of New 46 × 100 In. High-Lift Blooming Mill at Stelco," August, 1958, Page 123.
MORAN, R. J.—"The Application of Silicon and Germanium Power Rectifiers in the Steel Industry," August, 1958, Page 117.
MOSSO, A. J.—"Power Layouts in Steel Mills," February, 1958, Page 111.

O

OAKES, H. J. and KENYON, A. F.—"Electrical Drive System For a High Speed Combination Rod Mill," March, 1958, Page 123.
ORELLANA, I. G.—"Development of Automatic Thickness Controls for Strip Mills," March, 1958, Page 144.

P

PARTRIDGE, EVERETT P. and PAULSON, E. G.—"Tackling Water Pollution," November, 1958, Page 123.
PATTON, A. D. and SMITH R. A.—"Some Practical Solutions to Hot Mill Problems," July, 1958, Page 92.
PAULSON, E. G. and PARTRIDGE, EVERETT P.—"Tackling Water Pollution," November, 1958, Page 123.
PEEBLES, J. E., REMLEY, J. J. and EGGLESTON, R. B.—"Selection of Electrical Equipment for Temper and Skin Pass Mills," September, 1958, Page 115.
PHILIPP, HOWARD D.—"Development of Atomic Power and its Possible Applications to the Steel Industry," December, 1958, Page 109.
PHILLIPS, R. A.—"Methods of Control of Strip Dimensions on Hot Strip Finishing Mills," May, 1958, Page 100.
POLACK, S. P.—"Progress in Developing Fire-Resistant Hydraulic Fluids," August, 1958, Page 87.
PROCTOR, ROBERT V. and HARMON, BENJ. G.—"Hydraulic Jet Descaling—A New Method to Remove Scale from Hot Steel," December, 1958, Page 97.

R

REMLEY, J. J., EGGLESTON, R. B. and PEEBLES, J. E.—"Selection of Electrical Equipment for Temper and Skin Pass Mills," September, 1958, Page 115.
RENBERG, CLAIR and DRISCOLL, D. H.—"Double Cooling Bed for Rod Mill," March, 1958, Page 141.
ROBERTS, CLYDE A. and CALMES, ALBERT, DR.—"Seamless Tube Making By the Calmes Process," February, 1958, Page 124.
ROLDAN, ING. PASCUAL GUTIERREZ—"The Steel Industry of Mexico—Its Present and Immediate Future," January, 1958, Page 80.
RUSSELL, R. M. L.—"Safeguarding Steel Production," July, 1958, Page 112.

S

SACKERSON, GEORGE—"Primary Roll Neck Bearings and their Protection," February, 1958, Page 102.
SAUSSAMAN, J. D.—"Blast Furnace Operation with Western Raw Materials," November, 1958, Page 77.
SAVELAND, WALTER T., JR.—"Shaft Alinement and What It Means," September, 1958, Page 103.
SAVELAND, WALTER T., JR.—"Large Motor Bearings," October, 1958, Page 107.
SCHILLING, CLARENCE J.—"Oxygen Plant Cycles Tailored to Requirements of Iron and Steel Producers," May, 1958, Page 86.
SCHOEN, F. C.—"Light Weight Ladle Crane Trolleys Allow Larger Open Hearth Heats," September, 1958, Page 107.
SCHRAMM R. F., FATH, D. W. and CURTIS, S. P.—"Automatic Charging Control for No. 3 Fairless Blast Furnace," July, 1958, Page 73.
SCHWABE, W. E.—"Lighting Flicker Caused by Electric Arc Furnaces," August, 1958, Page 93.
SENDZIMIR, T.—"The Planetary Mill and Its Uses," January, 1958, Page 95.
SEVERSON, R. J.—"Material of Rolling Mill Slippers," May, 1958, Page 129.
SILLS, R. M. and TERWILLIGER, G. E.—"Automatic Numerical Data Logging and Processing in the Steel Industry," November, 1958, Page 101.
SIMMERS, CHARLES F.—"500-Ton Hot Metal Ladle Crane," December, 1958, Page 124.
SKELLEY, H. E. and EASTON, RUFUS—"Designing a Large Tonnage Continuous Casting Plant," May, 1958, Page 131.
SLABY, EUGENE R.—"Rustproofing Oils for Processing," January, 1958, Page 102.
SLAMAR, F. and KENNEDY, G. E.—"Turn-up and Turn-Down in Hot Rolling," March, 1958, Page 71.
SMITH, R. A. and PATTON, A. D.—"Some Practical Solutions to Hot Mill Problems," July, 1958, Page 92.
STASKO, STEVE and DANIELS, F. C. T.—"A New Combustion Process for Temperature Uniformity in Heat Treating Furnaces," July, 1958, Page 85.
STEPHENS, J. O. and KRAPF, G. H.—"Gas Turbines for Blast Furnace Blowing," September, 1958, Page 142.
STOKER, A. B.—"Railroad Car Rebuilds and Repair at Kaiser's Fontana Works," August, 1958, Page 132.
STRASSBURGER, J. H.—"Summary of Operating Results," May, 1958, Page 69.
STUTZER, A.—"Maintenance Experience with Oxygen Plants at Sparrows Point," May, 1958, Page 84.
SUMRALL, MELVIN—"Production of Seamless Casing and Tubing," March, 1958, Page 138.

T

TERWILLIGER, G. E. and SILLS, R. M.—"Automatic Numerical Data Logging and Processing in the Steel Industry," November 1958, Page 101.

TESKEY, G. W., JR.—"Carbon Black in Fuel Oil for Open Hearth Furnaces," October, 1958, Page 71.
TOROK, LOUIS—"Recent Innovations in Blast Furnace Maintenance and Rebuilding," September, 1958, Page 173.
TRABITS, JAMES E. and KERN, EMIL—"Allegheny Ludlum Steel Corp.'s New Forge Shop, Dunkirk, N. Y.," June, 1958, Page 73.
TUCKER, F. E.—"Ventilation of Large Industrial Buildings Under Heat Load," June, 1958, Page 107.
TUNNY, W. J.—"Dual Bridge Drives for Overhead Traveling Cranes," April, 1958, Page 125.

V

VONADA, E. E.—"Electrical Advances Can Reduce Installed Costs," November, 1958, Page 90.

W

Walker, N. S., COOK, J. W. and WALLACE, J. W.—"An Automatic Gage Control System for Tandem Cold Mills," July, 1958, Page 124.
WALKER, P. F.—"Structural Steel Handling with Mobile Equipment," November, 1958, Page 110.
WALLACE, J. W., WALKER, N. S. and COOK, J. W.—"An Automatic Gage Control System for Tandem Cold Mills," July, 1958, Page 124.
WORLEY, ROBERT W. and KITT, HOWARD G.—"Trends in Steel Mill Power Plants," March, 1958, Page 90.
WRIGHT, G. T.—"Operations and Maintenance of a 100-ton Double-Cycle, Gaseous Oxygen Plant," May, 1958, Page 81.

Y

YARD, EDWARD M.—"High Velocity Gas Stress-Relieving Furnace," February, 1958, Page 95.
YARHOUSE, WALTER T.—"Ten Painting Reminders for Steel Plants," September, 1958, Page 129.

LIST OF SUBJECTS

A

"AISE Annual Convention and Exposition—Pictorial Review"—October, 1958, Page 136.
"AISE District Chairmen—1957–1958"—March, 1958, Page 80.
"AISE Kelly Award Winners"—October, 1958, Page 138.
"AISE National Committees, 1958"—January, 1958, Page 93.
"AISE Officers and Directors, 1958"—January, 1958, Page 90.
"AISE Standard No. 8, Crane and Mill Auxiliary Drive Motor Cable Size Wiring Standards"—December, 1958, Page 132.
"Accelerated Firing Rates in Open Hearth Furnaces"—By E. T. W. BAILEY, October, 1958, Page 124.
"Allegheny Ludlum Steel Corp's New Forge Shop, Dunkirk, N. Y."—By EMIL KERN and JAMES E. TRABITS, June, 1958, Page 73.
"Annealing of Sheet-Strip Coils with Helium Injection, Fast"—By J. D. Keller, April, 1958, Page 109.
"Application of Progressive Induction Heating to Forged Roll Hardening Operations"—By JOHN DUGAN, November, 1958, Page 65.
"Application of Silicon and Germanium Power Rectifiers In the Steel Industry"—By R. J. MORAN, August, 1958, Page 117.
"Arc Furnaces, Lighting Flicker Caused by Electric"—By W. E. SCHWABE, August, 1958, Page 93.
"Atomic Power and its Possible Applications to the Steel Industry, Development of"—By HOWARD D. PHILIPP, December, 1958, Page 109.
"Atomization With a Reaction-Type Jet Burner, Open Hearth Fuel"—By A. L. HODGE and G. W. HINDS, December, 1958, Page 88.
"Automatic Charging Control for No. 3 Fairless Blast Furnace"—By S. P. CURTIS, R. F. SCHRAMM and D. W. FATH, July, 1958, Page 73.
"Automatic Contour Turning of Large Mill Rolls"—By WILLIAM HYAMS, March, 1958, Page 82.
"Automatic Gage Control System for Tanden Cold Mills, An"—By N. S. WALKER, J. W. COOK and J. W. WALLACE, July, 1958, Page 124.
"Automatic Numerical Data Logging and Processing in the Steel Industry"—By R. M. SILLS and G. E. TERWILLIGER, November, 1958, Page 101.

B

"Bars and Strip, A Combination Mill for Rolling Rod"—By ERNEST E. DAVIS, April, 1958, Page 101.
"Bearings and their Protection, Primary Roll Neck"—By GEORGE SACKERSON, February, 1958, Page 102.
"Bearings in Strip Mills, Maintenance of Backup Roll"—By W. M. LEWIS, November, 1958, Page 115.
"Bearings, Large Motor"—By WALTER T. SAVELAND, JR., October, 1958, Page 107.
"Bearings on European Mills, Maintenance of Oil Film"—By SAMUEL CARSON, April, 1958, Page 90.
"Benefits of Purchased Oxygen to the Indiana Harbor Works of the Inland Steel Company"—By N. R. KIRKDOFFER, May, 1958, Page 71.
"Blast Furnace, Automatic Charging Control for No. 3 Fairless"—By S. P. CURTIS, R. F. SCHRAMM and D. W. FATH, July, 1958, Page 73.
"Blast Furnace Blowing, Gas Turbines for"—By G. H. KRAPF and J. O. STEPHENS, September, 1958, Page 142.
"Blast Furnace Maintenance and Rebuilding, Recent Innovations in"—By LOUIS TOROK, September, 1958, Page 173.
"Blast Furnace Operation with Western Raw Materials"—By J. D. SAUSSAMAN, November, 1958, Page 77.
"Blast Furnace, Techniques in Rebuilding a"—By C. F. BESSENT, February, 1958, Page 82.
"Blast Furnaces, Distributing Raw Materials in"—By HENRY W. CAMPBELL, April, 1958, Page 116.
"Blooming Mill at Stelco, Operating and Mechanical Features of New 46 × 100 In. High-Lift"—By A. C. GRAY and J. G. MITCHELL, August, 1958, Page 123.
"Blowing, Gas Turbines for Blast Furnace"—By G. H. KRAPF and J. O. STEPHENS, September, 1958, Page 142.
"Bridges and Unloaders, Structural Design Problems and Recommended Practice for Ore"—By WILLIAM B. McLEAN, August, 1958, Page 78.
"Buildings Under Heat Load, Ventilation of Large Industrial"—By F. E. TUCKER, June, 1958, Page 107.
"Burner, Open Hearth Fuel Atomization With a Reaction-Type Jet"—By A. L. HODGE and G. W. HINDS, December, 1958, Page 88.

C

"Cables?, When Do You Change Wire Rope"—By J. E. GRIMWOOD, June, 1958, Page 94.
"Calmes Process, Seamless Tube Making by the"—By DR. ALBERT CALMES and CLYDE A. ROBERTS, February, 1958, Page 124.
"Canadian Steel Industry, The Growing"—By D. S. HOLBROOK, July, 1958, Page 133.
"Capital Expenditure Proposals, Measuring the Investment Worth of"—By A. D. HOWRY, December, 1958, Page 79.
"Carbon Black in Fuel Oil for Open Hearth Furnaces"—By G. W. TESKEY, JR., October, 1958, Page 71.
"Card Programming Control of Rolling Mills—I"—By ROBERT W. HOLMAN, June, 1958, Page 113.
"Card Programming Control of Rolling Mills—II"—By R. G. BEADLE and W. E. MILLER, June, 1958, Page 115.
"Casting Plant, Designing a Large Tonnage Continuous"—By H. E. SKELLEY and RUFUS EASTON, May, 1958, Page 131.
"Chairmen—1957–1958, AISE District"—March, 1958, Page 80.
"Chemicals in Industry, Coal"—By L. G. BYWATER, October, 195R Page 101.
"Choosing the Right Fastener"—By WILLIAM P. ACRES, March, 1958, Page 151.
"Coal Chemicals in Industry"—By L. G. BYWATER, October, 1958, Page 101.
"Coke and By-Products In 1957"—By I. E. MADSEN, December, 1958, Page 73.
"Combination Mill for Rolling Rod, Bars and Strip, A"—By ERNEST E. DAVIS, April, 1958, Page 101.
"Combustion Process for Temperature Uniformity in Heat Treating Furnaces, A New"—By F. C. T. DANIELS and STEVE STASKO, July, 1958, Page 85.
"Combustion System, Soaking Pits with a High Velocity"—By DAVID C. HANEY, November, 1958, Page 82.
"Continuous Casting Plant, Designing a Large Tonnage"—By H. E. SKELLEY and RUFUS EASTON, May, 1958, Page 131.
"Control Systems for Continuous Processing Lines, Recent Advances in"—By C. P. BROOKS and J. T. BRADFORD, October, 1958, Page 129.
"Control Systems, Proper Installation and Maintenance of Electric"—By J. W. BAUER, JR., April, 1958, Page 128.
"Control Systems, Standardization of Steel Mill Crane"—By K. S. KUKA, December, 1958, Page 61.
"Convention and Exposition—Pictorial Review, AISE Annual"—October, 1958, Page 136.
"Convention and Exposition, Program—1958 AISE Annual"—August, 1958, Page 101.
"Convention and Iron and Steel Exposition, Program—1958 AISE Annual"—September, 1958, Page 176.
"Cooling Bed for Rod Mill, Double"—By D. H. DRISCOLL and CLAIR RENBERG, March, 1958, Page 141.
"Crane and Mill Auxiliary Drive Motor Cable Size Wiring Standards, AISE Standard No. 8"—December, 1958, Page 132.
"Crane Control Systems, Standardization of Steel Mill"—By K. S. KUKA, December, 1958, Page 61.
"Crane, 500-Ton Hot Metal Ladle"—By CHARLES F. SIMMERS, December, 1958, Page 124.
"Crane Trolleys Allow Larger Open Hearth Heats, Light Weight Ladle"—By F. C. SCHOEN, September, 1958, Page 107.
"Cranes, Dual Bridge Drives for Overhead Traveling"—By W. J. TUNNY, April, 1958, Page 125.

"Cranes, Standardized Component Parts for Heavy Duty Mill Type"—By MYRON R. BOWERMAN and ELVIN R. MADISON, July, 1958, Page 104.

D

"Descaling—A New Method to Remove Scale from Hot Steel, Hydraulic Jet"—By BENJ. G. HARMON and ROBERT V. PROCTOR, December, 1958, Page 97.
"Design of Rolling Mill Slippers"—By F. J. GLEVE, May, 1958, Page 127.
"Designing a Large Tonnage Continuous Casting Plant"—By H. E. SKELLEY and RUFUS EASTON, May, 1958, Page 131.
"Development and Application of Spray Lubrication"—By E. J. GESDORF, May, 1958, Page 115.
"Development of Atomic Power and its Possible Applications to the Steel Industry"—By HOWARD D. PHILIPP, December, 1958, Page 109.
"Development of Automatic Thickness Controls for Strip Mills"—By I. G. ORELLANA, March, 1958, Page 144.
"Developments in the Iron and Steel Industry During 1957"—By I. E. MADSEN, January, 1958, Page 139.
"Developments in Metallic Recuperators"—By THOMAS E. DIXON and HEINZ A. KUHNE, January, 1958, Page 127.
"Direct Reduction of Iron Ore in the United States, The"—By HARRY W. McQUAID, January, 1958, Page 69.
"Dished Heads, The Forming of Flanged and"—By H. S. BEERS, May, 1958, Page 110.
"Distributing Raw Materials in Blast Furnaces"—By HENRY W. CAMPBELL, April, 1958, Page 116.
"Dollars and Sense of Pickle-Liquor Treatment, The"—By JAMES S. JOSEPH and E. T. CULVER, March, 1958, Page 112.
"Double Cooling Bed for Rod Mill"—By D. H. DRISCOLL and CLAIR RENBERG, March, 1958, Page 141.
"Drive Electrical Equipment, Protection Against Prolonged Delays on Main"—By H. H. ANGEL, April, 1958, Page 77.
"Dual Bridge Drives for Overhead Traveling Cranes"—By W. J. TUNNY, April, 1958, Page 125.

E

"Economics of Generated vs Purchased Oxygen for Steel Plant Use"—By R. A. LAMBERT, May, 1958, Page 76.
"Electric Furnace Steel Manufacturing"—By W. E. LEWIS, March, 1958, Page 98.
"Electrical Advances Can Reduce Installed Costs"—By E. E. VONADA, November, 1958, Page 90.
"Electrical Drive System For a High Speed Combination Rod Mill"—By A. F. KENYON and H. J. OAKES, March, 1958, Page 123.
"Electrical Equipment for a Modern Rod Mill"—By E. L. ANDERSON, January, 1958, Page 112.
"Electrical Equipment, Protection Against Prolonged Delays on Main Drive"—By H. H. ANGEL, April, 1958, Page 77.
"European Steelmaking Today"—By ALASTAIR McLEOD, February, 1958, Page 133.
"European Steel Plant Progress—1957, A Review of"— By R. C. McMICHAEL, August, 1958, Page 73.
"Exposition—Pictorial Review, AISE Annual Convention and"—October, 1958, Page 136.

F

"Factors in the Design of a Steel Plant Power System"—By A. J. F. MACQUEEN, October, 1958, Page 92.
"Fairless Blast Furnace, Automatic Charging Control for No. 3"—By S. P. CURTIS, R. F. SCHRAMM and D. W. FATH, July, 1958, Page 73.
"Fairless Works, Operational Features of 45-In. Slab Mill and 80-In. Hot Strip Mill at"—By T. D. CLIFFORD, September, 1958, Page 198.
"Fast Annealing of Sheet-Strip Coils with Helium Injection"—By J. D. KELLER, April, 1958, Page 109.
"Fastener, Choosing the Right"—By WILLIAM P. ACRES, March, 1958, Page 151.
"Firing Rates in Open Hearth Furnaces, Accelerated"—By E. T. W. BAILEY, October, 1958, Page 124.
"Flanged and Dished Heads, The Forming of"—By H. S. BEERS, May, 1958, Page 110.
"Fontana Open Hearth Precipitators, Modifications to the"—By EARL V. AKERLOW, July, 1958, Page 97.
"Forge Shop, Dunkirk, N. Y., Allegheny Ludlum Steel Corp's New"—By EMIL KERN and JAMES E. TRABITS, June, 1958, Page 73.
"Forging Press and Its Control, A Modern"—By OTTO HOFFMANN and ALEX KRYNYTZKY, June, 1958, Page 81.
"Forming of Flanged and Dished Heads, The"—By H. S. BEERS, May, 1958, Page 110.
"Furnace, High Velocity Gas Stress-Relieving"—By EDWARD M. YARD, February, 1958, Page 95.
"Furnace Operation with Western Raw Materials, Blast"—By J. D. SAUSSAMAN, November, 1958, Page 77.

G

"Gage Control System for Tandem Cold Mills, An Automatic"—By N. S. WALKER, J. W. COOK and J. W. WALLACE, July, 1958, Page 124.
"Gas Storage for Peak Demands"—By ROBERT KYLE, August, 1958, Page 109.
"Gas Turbine, An Operator's Evaluation of the Versatile"—By GEORGE H. KkAPF and H. J. GIFFORD, June, 1958, Page 98.
"Gas Turbines for Blast Furnace Blowing"—By G. H. KRAPF and J. O. STEPHENS, September, 1958, Page 142.
"Gearing as Viewed by a Lubrication Engineer, Mill"—By A. E. CICHELLI, September, 1958, Page 91.
"Germanium Power Rectifiers in the Steel Industry, The Application of Silicon and"—By R. J. MORAN, August, 1958, Page 117.
"Greases, Importance of Pumpability and Heat Stability in Industrial"—By WM. A. MAGIE, 2ND, October, 1958, Page 87.
"Growing Canadian Steel Industry, The"—By D. S. HOLBROOK, July, 1958, Page 133.

H

"Hardness Readings, Relationship Between Scleroscope, Rockwell and Brinell"—By N. R. ARANT and J. J. MARSALKA, February, 1958, Page 160.
"Heat Treating Furnaces, A New Combustion Process for Temperature Uniformity in"—By F. C. T. DANIELS and STEVE STASKO, July, 1958, Page 85.
"Helium Injection, Fast Annealing of Sheet-Strip Coils with"—By J. D. KELLER, April, 1958, Page 109.
"High Velocity Gas Stress-Relieving Furnace"—By EDWARD M. YARD, February, 1958, Page 95.
"Hot Mill Problems, Some Practical Solutions to"—By R. A. SMITH and A. D. PATTON, July, 1958, Page 92.
"Hot Rolling, Turn-Up and Turn-Down in"—By G. E. KENNEDY and F. SLAMAR, March, 1958, Page 71.
"Hydraulic Fluids, Progress in Developing Fire-Resistant"—By S. P. POLACK, August, 1958, Page 87.
"Hydraulic Jet Descaling—A New Method to Remove Scale from Hot Steel"—By BENJ. G. HARMON and ROBERT V. PROCTOR, December, 1958, Page 97.

I

"Importance of Pumpability and Heat Stability in Industrial Greases"—By WM. A. MAGIE, 2ND, October, 1958, Page 87.
"Induction Heating to Forged Roll Hardening Operations, Application of Progressive"—By JOHN DUGAN, November, 1958, Page 65.
"Ingot Buggy Design, Trends in"—By H. G. FROSTICK, October, 1958, Page 78.
"Inland Steel Company, Benefits of Purchased Oxygen to the Indiana Harbor Works of the"—By N. R. KIRKDOFFER, May, 1958, Page 71.
"Installation of Stretch Reducing Mill"—By HOWARD L. MITCHELL, March, 1958, Page 139.
"Iron and Steel Industry During 1957, Developments in the"—By I. E. MADSEN, January, 1958, Page 139.
"It Ain't Mechanical"—By JEROME L. LINDBERG, September, 1958, Page 166.

K

"Kaiser's Fontana Works, Railroad Car Rebuilds and Repair at"—By A. B. STOKER, August, 1958, Page 132.

L

"Ladle Crane, 500-Ton Hot Metal"—By CHARLES F. SIMMERS, December, 1958, Page 124.
"Large Motor Bearings"—By WALTER T. SAVELAND, JR., October, 1958, Page 107.
"Light Weight Ladle Crane Trolleys Allow Larger Open Hearth Heats"—By F. C. SCHOEN, September, 1958, Page 107.
"Lighting Flicker Caused by Electric Arc Furnaces"—By W. E. SCHWABE, August, 1958, Page 93.
"Logging and Processing in the Steel Industry, Automatic Numerical Data"—By R. M. SILLS and G. E. TERWILLIGER, November, 1958, Page 101.
"Lubrication, Development and Application of Spray"—By E. J. GESDORF, May, 1958, Page 115.
"Lubrication Experiences in the Sparrows Point Plant, Recent"—By THOMAS A. BESSENT, December, 1958, Page 117.

M

"Magnetic-Flux Gas Shielded Arc Welding"—By J. E. DATO, September, 1958, Page 160.
"Maintenance Experience with Oxygen Plants at Sparrows Point"—By A. STUTZER, May, 1958, Page 84.
"Maintenance of Backup Roll Bearings in Strip Mills"—By W. M. LEWIS, November, 1958, Page 115.

"Maintenance of Oil Film Bearings on European Mills"—By SAMUEL CARSON, April, 1958, Page 90.
"Material of Rolling Mill Slippers"—By R. J. SEVERSON, May, 1958, Page 129.
"Materials, Blast Furnace Operation with Western Raw"—By J. D. SAUSSAMAN, November, 1958, Page 77.
"Measuring The Investment Worth of Capital Expenditure Proposals"—A. D. HOWRY, December, 1958, Page 79.
"Metallic Recuperators, Developments in"—By THOMAS E. DIXON and HEINZ A. KUHNE, January, 1958, Page 127.
"Methods of Control of Strip Dimensions on Hot Strip Finishing Mills"—By R. A. PHILLIPS, May, 1958, Page 100.
"Mexico—Its Present and Immediate Future, The Steel Industry of"—By ING. PASCUAL GUTIERREZ ROLDAN, January, 1958, Page 80.
"Mill Gearing as Viewed by a Lubrication Engineer"—By A. E. CICHELLI, September, 1958, Page 91.
"Mobile Equipment, Structural Steel Handling with"—By P. F. WALKER, November, 1958, Page 110.
"Modern Forging Press and Its Control"—By OTTO HOFFMANN and ALEX KRYNYTZKY, June, 1958, Page 81.
'Modifications to the Fontana Open Hearth Precipitators"—By EARL V. AKERLOW, July 1958, Page 97.

N

"National Committees, 1958 AISE"—January, 1958, Page 93.
"New Combustion Process for Temperature Uniformity in Heat Treating Furnaces, A"—By F. C. T. DANIELS and STEVE STASKO, July, 1958, Page 85.
"Noise—A Problem of Physical and Human Engineering"—By RICHARD D. LEMMERMAN and RICHARD R. AUDETTE, October, 1958, Page 116.

O

"Officers and Directors, 1958 AISE"—January, 1958, Page 90.
"Oil Film Bearings on European Mills, Maintenance of"—By SAMUEL CARSON, April, 1958, Page 90.
"Oils for Processing, Rustproofing"—By EUGENE R. SLABY, January, 1958, Page 102.
"Open Hearth Fuel Atomization With a Reaction-Type Jet Burner"—By A. L. HODGE and G. W. HINDS, December, 1958, Page 88.
"Open Hearth Furnace, The Oxidation Mechanism in the"—By A. L. HODGE, November, 1958, Page 97.
"Open Hearth Furnaces, Accelerated Firing Rates in"—By E. T. W. BAILEY, October, 1958, Page 124.
"Open Hearth Furnaces, Carbon Black in Fuel Oil for"—By G. W. TESKEY, JR., October, 1958, Page 71.
"Operating and Mechanical Features of New 46 × 100 In. High-Lift Blooming Mill at Stelco"—By A. C. GRAY and J. G. MITCHELL, August, 1958, Page 123.
"Operation and Maintenance of a 100-ton Double-Cycle, Gaseous Oxygen Plant"—By G. T. WRIGHT, May, 1958, Page 81.
"Operational Features of 45-In. Slab Mill and 80-In. Hot Strip Mill at Fairless Works"—By T. D. CLIFFORD, September, 1958, Page 198.
"Operator's Evaluation of the Versatile Gas Turbine"—By GEORGE H. KRAPF and H. J. GIFFORD, June, 1958, Page 98.
"Ore in the United States, The Direct Reduction of Iron"—By HARRY W. McQUAID, January, 1958, Page 69.
"Oxidation Mechanism in the Open Hearth Furnace, The"—By A. L. HODGE, November, 1958, Page 97.
"Oxygen and the Steel Plant": "Summary of Operating Results"—By J. H. STRASSBURGER; "Benefits of Purchased Oxygen to the Indiana Harbor Works of the Inland Steel Co."—By N. R. KIRKDOFFER; "Economics of Generated vs Purchased Oxygen for Steel Plant Use"—By R. A. LAMBERT; "Operation and Maintenance of a 100-ton Double-Cycle, Gaseous Oxygen Plant"—By G. T. WRIGHT; "Maintenance Experience with Oxygen Plants at Sparrows Point"—By A. STUTZER; "Oxygen Plant Cycles Tailored to Requirements of Iron and Steel Producers"—By CLARENCE J. SCHILLING, May, 1958, Page 69.
"Oxygen for Steel Plant Use, Economics of Generated vs Purchased"—By R. A. LAMBERT, May, 1958, Page 76.
"Oxygen to the Indiana Harbor Works of the Inland Steel Company, Benefits of Purchased"—By N. R. KIRKDOFFER, May, 1958, Page 71.
"Oxygen Plant Cycles Tailored to Requirements of Iron and Steel Producers"—By CLARENCE J. SCHILLING, May, 1958, Page 86.
"Oxygen Plant, Operations and Maintenance of a 100-ton Double-Cycle, Gaseous Oxygen Plant"—By G. T. WRIGHT, May, 1958, Page 81.
"Oxygen Plants at Sparrows Point, Maintenance Experience with"—By A. STUTZER, May, 1958, Page 84.

P

"Painting Remainders for Steel Plants, Ten"—By WALTER T. YARHOUSE, September, 1958, Page 129.
"Physical and Human Engineering, Noise—A Problem of"—By RICHARD D. LEMMERMAN and RICHARD R. AUDETTE, October, 1958, Page 116.
"Pickle-Liquor Treatment, The Dollars and Sense of"—By JAMES S. JOSEPH and E. T. CULVER, March, 1958, Page 112.
"Pictorial Roundup, AISE Spring Conference"—May, 1958, Page 108.
"Pictorial Roundup—AISE Western Meeting"—April, 1958, Page 88.
"Planetary Mill and Its Uses, The"—By T. SENDZIMIR, January, 1958, Page 95.
"Planned Maintenance Techniques for a Hot Strip Mill"—By JAMES R. KENNEDY, October, 1958, Page 139.
"Pollution Reflects Operating Practices, Stream"—By JOHN E. KINNEY, April, 1958, Page 97.
"Pollution, Tackling Water"—By E. G. PAULSON and EVERETT P. PARTRIDGE, November, 1958, Page 123.
"Power Layouts in Steel Mills"—By A. J. MOSSO, February, 1958, Page 111.
"Power Plants, Trends in Steel Mill"—By HOWARD G. KITT and ROBERT W. WORLEY, March, 1958, Page 90.
"Power System, Factors in the Design of a Steel Plant"—By A. J. F. MACQUEEN, October, 1958, Page 92.
"Precipitators, Modifications to the Fontana Open Hearth"—By EARL V. AKERLOW, July, 1958, Page 97.
"President's Message, The"—January, 1958, Page 88.
"Press and Its Controls, A Modern Forging"—By OTTO HOFFMANN and ALEX KRYNYTZKY, June, 1958, Page 81.
"Primary Roll Neck Bearings and their Protection"—By GEORGE SACKERSON, February, 1958, Page 102.
"Processing Lines, Recent Advances in Control Systems for Continuous"—By C. P. BROOKS and J. T. BRADFORD, October, 1958, Page 129.
"Production of Seamless Casing and Tubing"—By MELVIN SUMRALL, March, 1958, Page 138.
"Program, 1958 AISE Annual Convention and Exposition"—August, 1958, Page 101.
"Program—1958 AISE Annual Convention and Iron and Steel Exposition"—September, 1958, Page 176.
"Program—AISE Spring Conference"—March, 1958, Page 103.
"Programming Control of Rolling Mills—I, Card"—By ROBERT W. HOLMAN, June, 1958, Page 113.
"Programming Control of Rolling Mills—II, Card"—By R. G. BEADLE and W. E. MILLER, June, 1958, Page 115.
"Progress in Developing Fire-Resistant Hydraulic Fluids"—By S. P. POLACK, August, 1958, Page 87.
"Progress—Past and Future"—By C. L. HUSTON, JR., August, 1958, Page 69.
"Proper Installation and Maintenance of Electric Control Systems"—By J. W. BAUER, JR., April, 1958, Page 128.
"Protection Against Prolonged Delays on Main Drive Electrical Equipment"—By H. H. ANGEL, April, 1958, Page 77.
"Pueblo Plant, Symposium on C. F. & I.'s": "Production of Seamless Casing and Tubing"—By MELVIN SUMRALL; "Installation of Stretch Reducing Mill"—By HOWARD L. MITCHELL; "Double Cooling Bed for Rod Mill"—By D. H. DRISCOLL and CLAIR RENBERG, March, 1958, Page 138.
"Pumpability and Heat Stability in Industrial Greases, Importance of"—By WM. A. MAGIE, 2ND, October, 1958, Page 87.

R

"Railroad Car Rebuilds and Repair at Kaiser's Fontana Works"—By A. B. STOKER, August, 1958, Page 132.
"Rebuilding, Recent Innovations in Blast Furnace Maintenance and"—By LOUIS TOROK, September, 1958, Page 173.
"Recent Advances in Control Systems for Continuous Processing Lines"—By C. P. BROOKS and J. T. BRADFORD, October, 1958, Page 129.
"Recent Developments in Slabbing Mills"—By H. J. KALBERKAMP, February, 1958, Page 73.
"Recent Hot Strip Mill Roughing Trains"—By JOHN H. GREINER, September, 1958, Page 151.
"Recent Innovations in Blast Furnace Maintenance and Rebuilding"—By LOUIS TOROK, September, 1958, Page 173.
"Recent Lubrication Experiences in the Sparrows Point Plant"—By THOMAS A. BESSENT, December, 1958, Page 117.
"Rectifiers in the Steel Industry, The Application of Silicon and Germanium Power"—By R. J. MORAN, August, 1958, Page 117.
"Recuperators, Developments in Metallic"—By THOMAS E. DIXON and HEINZ A. KUHNE, January, 1958, Page 127.
"Reducing Mill, Installation of Stretch"—By HOWARD L. MITCHELL, March, 1958, Page 139.
"Relationship Between Scleroscope, Rockwell and Brinell Hardness Readings"—By N. R. ARANT and J. J. MARSALKA, February, 1958, Page 160.
"Republic in the South"—By T. J. ESS, April, 1958, Page R-1.
"Review of European Steel Plant Progress—1957, A"—By R. C. McMICHAEL, August, 1958, Page 73.
"Rod, Bars and Strip, A Combination Mill for Rolling"—By ERNEST E. DAVIS, April, 1958, Page 101.
"Rod Mill, Double Cooling Bed for"—By D. H. DRISCOLL and CLAIR RENBERG, March, 1958, Page 141.
"Rod Mill, Electrical Drive System For a High Speed Combination"—By A. F. KENYON and H. J. OAKES, March, 1958, Page 123.

"Rod Mill, Electrical Equipment for a Modern"—By E. L. ANDERSON, January, 1958, Page 112.
"Roll Hardening Operations, Application of Progressive Induction Heating to Forged"—By JOHN DUGAN, November, 1958, Page 65.
"Rolling Mill Slippers": "Design of Rolling Mill Slippers"—By F. J. GLEVE; "Material of Rolling Mill Slippers"—By R. J. SEVERSON, May, 1958, Page 127.
"Rolling Mills—I, Card Programming Control of"—By ROBERT W. HOLMAN, June, 1958, Page 113.
"Rolling Mills—II, Card Programming Control of"—By R. G. BEADLE and W. E. MILLER, June, 1958, Page 115.
"Rolling, Turn-Up and Turn-Down in Hot"—By G. E. KENNEDY and F. SLAMAR, March, 1958, Page 71.
"Rolls, Automatic Contour Turning of Large Mill"—By WILLIAM HYAMS, March, 1958, Page 82.
"Roughing Trains, Recent Hot Strip Mill"—By JOHN H. GREINER, September, 1958, Page 151.
"Rustproofing Oils for Processing"—By EUGENE R. SLABY, January, 1958, Page 102.

S

"Safeguarding Steel Production"—By R. M. L. RUSSELL, July, 1958, Page 112.
"Seamless Tube Making by the Calmes Process"—By DR. ALBERT CALMES and CLYDE A. ROBERTS, February, 1958, Page 124.
"Selection of Electrical Equipment for Temper and Skin Pass Mills"—By J. E. PEEBLES, J. J. REMLEY and R. B. EGGLESTON, September, 1958, Page 115.
"Shaft Alinement and What It Means"—By WALTER T. SAVELAND, JR., September, 1958, Page 103.
"Silicon and Germanium Power Rectifiers in the Steel Industry, The Application of"—By R. J. MORAN, August, 1958, Page 117.
"Skin Pass Mills, Selection of Electrical Equipment for Temper and"—By J. E. PEEBLES, J. J. REMLEY and R. B. EGGLESTON, September, 1958, Page 115.
"Slab Mill and 80-In. Hot Strip Mill at Fairless Works, Operational Features of 45-In."—By T. D. CLIFFORD, September, 1958, Page 198.
"Slabbing Mills, Recent Developments in"—By H. J. KALBERKAMP, February, 1958, Page 73.
"Slippers, Rolling Mill": "Design of Rolling Mill Slippers"—By F. J. GLEVE; "Material of Rolling Mill Slippers"—By R. J. SEVERSON, May, 1958, Page 127.
"Soaking Pits with a High Velocity Combustion System"—By DAVID C. HANEY, November, 1958, Page 82.
"Some Practical Solutions to Hot Mill Problems"—By R. A. SMITH and A. D. PATTON, July, 1958, Page 92.
"Sparrows Point, Maintenance Experience with Oxygen Plants at"—By A. STUTZER, May, 1958, Page 84.
"Sparrows Point Plant, Recent Lubrication Experiences in the"—By THOMAS A. BESSENT, December, 1958, Page 117.
"Spray Lubrication, Development and Application of"—By E. J. GESDORF, May, 1958, Page 115.
"Spring Conference, Program—AISE"—March, 1958, Page 103.
"Standard No. 8, Crane and Mill Auxiliary Drive Motor Cable Size Wiring Standards, AISE"—December, 1958, Page 132.
"Standardization of Steel Mill Crane Control Systems"—By K. S. KUKA, December, 1958, Page 61.
"Standardized Component Parts for Heavy Duty Mill Type Cranes"—By MYRON R. BOWERMAN and ELVIN R. MADISON, July, 1958, Page 104.
"Steel Industry of Mexico—Its Present and Immediate Future, The"—By ING. PASCUAL GUTIERREZ ROLDAN, January, 1958, Page 80.
"Steel Plant, Oxygen and the": "Summary of Operating Results"—By J. H. STRASSBURGER; "Benefits of Purchased Oxygen to the Indiana Harbor, Works of the Inland Steel Co."—By N. R. KIRKDOFFER; "Economics of Generated vs Purchased Oxygen for Steel Plant Use"—By R. A. LAMBERT; "Operations and Maintenance of a 100-ton Double-Cycle, Gaseous Oxygen Plant"—By G. T. WRIGHT; "Maintenance Experience with Oxygen Plants at Sparrows Point"—By A. STUTZER; "Oxygen Plant Cycles Tailored to Requirements of Iron and Steel Producers"—By CLARENCE J. SCHILLING, May, 1958, Page 69.
"Stelco, Operating and Mechanical Features of New 46 × 100 In. High-Lift Blooming Mill at"—By A. C. GRAY and J. G. MITCHELL, August, 1958, Page 123.
"Storage for Peak Demands, Gas"—By ROBERT KYLE, August, 1958, Page 109.
"Stream Pollution Reflects Operating Practices"—By JOHN E. KINNEY, April, 1958, Page 97.
"Strip, A Combination Mill for Rolling Rod, Bars and"—By ERNEST E. DAVIS, April, 1958, Page 101.
"Strip Dimensions on Hot Strip Finishing Mills, Methods of Control of"—By R. A. PHILLIPS, May, 1958, Page 100.
"Strip Mill at Fairless Works, Operational Features of 45-In. Slab Mill and 80-In. Hot"—By T. D. CLIFFORD, September, 1958, Page 198.
"Strip Mill, Planned Maintenance Techniques for a Hot"—By JAMES R. KENNEDY, October, 1958, Page 139.
"Strip Mill Roughing Trains, Recent Hot"—By JOHN H. GREINER, September, 1958, Page 151.
"Strip Mills, Development of Automatic Thickness Controls for"—By I. G. Orellana, March, 1958, Page 144.
"Strip Mills, Maintenance of Backup Roll Bearings in"—By W. M. LEWIS, November, 1958, Page 115.
"Structural Design Problems and Recommended Practice for Ore Bridges and Unloaders"—By WILLIAM B. McLEAN, August, 1958, Page 78.
"Structural Steel Handling with Mobile Equipment"—By P. F. WALKER, November, 1958, Page 110.
"Summary of Operating Results"—By J. H. STRASSBURGER, May, 1958, Page 69.
"Symposium on C. F. & I's Pueblo Plant": "Production of Seamless Casing and Tubing"—By MELVIN SUMRALL; "Installation of Stretch Reducing Mill"—By HOWARD L. MITCHELL; "Double Cooling Bed for Rod Mill"—By D. H. DRISCOLL and CLAIR RENBERG, March, 1958, Page 138.

T

"Tackling Water Pollution"—By E. G. PAULSON and EVERETT P. PARTRIDGE, November, 1958, Page 123.
"Tandem Cold Mills, An Automatic Gage Control System for"—By N. S. WALKER, J. W. COOK and J. W. WALLACE, July, 1958, Page 124.
"Techniques in Rebuilding a Blast Furnace"—By C. F. BESSENT, February, 1958, Page 82.
"Temper and Skin Pass Mills, Selection of Electrical Equipment for"—By J. E. PEEBLES, J. J. REMLEY and R. B. EGGLESTON, September, 1958, Page 115.
"Ten Painting Reminders for Steel Plants"—By WALTER T. YARHOUSE, September, 1958, Page 129.
"Thickness Controls for Strip Mills, Developments of Automatic"—By I. G. ORELLANA, March, 1958, Page 144.
"Tomorrow's Engineer"—By N. C. MICHELS, June, 1958, Page 104.
"Trends in Ingot Buggy Design"—By H. G. FROSTICK, October, 1958, Page 78.
"Trends in Steel Mill Power Plants"—By HOWARD G. KITT and ROBERT W. WORLEY, March, 1958, Page 90.
"Trolleys Allow Larger Open Hearth Heats, Light Weight Ladle Crane"—By F. C. SCHOEN, September, 1958, Page 107.
"Tube Making by the Calmes Process, Seamless"—By DR. ALBERT CALMES and CLYDE A. ROBERTS, February, 1958, Page 124.
"Tubing, Production of Seamless Casing and"—By MELVIN SUMRALL, March, 1958, Page 138.
"Turbine, An Operator's Evaluation of the Versatile Gas"—By GEORGE H. KRAPF and H. J. GIFFORD, June, 1958, Page 98.
"Turbines for Blast Furnace Blowing, Gas"—By G. H. KRAPF and J. O. STEPHENS, September, 1958, Page 142.
"Turning of Large Mill Rolls, Automatic Contour"—By WILLIAM HYAMS, March, 1958, Page 82.
"Turn-Up and Turn-Down in Hot Rolling"—By G. E. KENNEDY and F. SLAMAR, March, 1958, Page 71.

U

"Unloaders, Structural Design Problems and Recommended Practice for Ore Bridges and"—By WILLIAM B. McLEAN, August, 1958, Page 78.

V

"Ventilation of Large Industrial Buildings Under Heat Load"—By F. E. TUCKER, June, 1958, Page 107.

W

"Weirton Steel Co."—By T. J. ESS, November, 1958, Page W-1.
"Welding, Magnetic-Flux Gas Shielded Arc"—By J. E. DATO, September, 1958, Page 160.
"When Do You Change Wire Rope Cables?"—By J. E. GRIMWOOD, June, 1958, Page 94.
"Wire Rope Cables?, When Do You Change"—By J. E. GRIMWOOD, June, 1958, Page 94.
"Wiring Standards, AISE Standard No. 8, Crane and Mill Auxiliary Drive Motor Cable Size"—December, 1958, Page 132.

"500-Ton Hot Metal Ladle Crane"—By CHARLES F. SIMMERS, December, 1958, Page 124.
" 1957, Coke and By-Products in"—By I. E. Madsen, December, 1958, Page 73.
"1957, Developments in the Iron and Steel Industry During"—By I. E. MADSEN, January, 1958, Page 139.